

Work Order ID 66207

February 7, 2011 12:47:23 PM



Page 1

Item ID: D4270-1

Accept



Setup Start



Revision ID: PRELIM

Stop



Item Name: LVDT Bracket

Start Date: 2/07/11

Start Qty: 2.00



Cust Item ID:

Required Date: 2/18/11

Req'd Qty: 2.00

Customer:

Reference:

Run Start



Approvals:

Process Plan: CL

Date: 11/02/07

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D4270

PA1

100

0.00



BAND SAW

Bandsaw

Memo

0.00

Jeaspa Bandsaw

Cut Blank to 3.125"

Batch: 112764

on 11/02/07

2

0

110

0.00



HAAS CNC VERTICAL MACHINING #1

HAAS 1

Memo

0.00

HAAS CNC vertical machine #1

1-Machine per folio FB003

DWG REV: PA1

FOLIO REV: AA

B.A 11/03/21

2

0

2- deburr rough edges



MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

PRELIMINARY ISSUE

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 66207

February 7, 2011 12:47:23 PM



Page 2

Item ID: D4270-1

Accept



Setup Start



Revision ID: PRELIM

Stop



Item Name: LVDT Bracket

Start Date: 2/07/11 Start Qty: 2.00



Cust Item ID:

Required Date: 2/18/11 Req'd Qty: 2.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120

QC2- Inspect parts off machine FAI/FAIB

0.00



QC

Memo

0.00

B.A 11/03/21

2

6

Quality Control

130

QC8- Inspect parts - second check

0.00



QC

Memo

0.00

JL 11/03/21

2

Quality Control

140

Chemical Conversion Coat per QSI005 4.1

0.00



HandFinish

Memo

0.00

2 BL 11-3-21.

Hand Finishing

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 66207

February 7, 2011 12:47:23 PM



Page 3

Item ID: D4270-1	Accept		Setup	Start	
Revision ID: PRELIM				Stop	
Item Name: LVDT Bracket					
Start Date: 2/07/11	Start Qty: 2.00		Cust Item ID:		
Required Date: 2/18/11	Req'd Qty: 2.00		Customer:		
Reference:					

Approvals:	Process Plan: _____	Date: _____	Tooling: _____	Date: _____	Run	Start	
	QC: _____	Date: _____	SPC (Y/N): _____	Date: _____		Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150 	QC3- Inspect Part Finish	0.00							
QC Quality Control	Memo	0.00				2	0	11/03/21	
180 	Identify as per dwg & Stock Location: <i>fuel shell</i>	0.00							
Packaging Packaging	Memo	0.00				2	0		
									<i>11-06-07</i>
190 	QC21- Final Inspection - Work Order Release	0.00							
QC Quality Control	Memo	0.00							

POSITIVE RECALL
EFFECTIVE 11-06-07 AUTH W
RELEASED _____ DATE _____

RD 2334
11-06-9
Eagle
(2)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 1

February 7, 2011 12:47:22 PM

Work Order ID: 66207



Parent Item: D4270-1



Parent Item Name: LVDT Bracket

Start Date: 2/07/11

Required Date: 2/18/11

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A NEW ISSUE 10-11-24 JLM VERIFIED BY:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6B2.000X03.50 0		Purchased	No			100	f	10.9391	0.2604	0.548211			



6061-T6 Bar 2.00 x 3.50

Location

Loc Qty

Loc Code

MAT09

10.9391

112764

10.9391

5483' on 11/02/24

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order: 66207
Description: LVDT BRACKET	Part Number: D4270-1
Inspection Dwg: D4270 , Rev: PA 1	Page 1 of 1

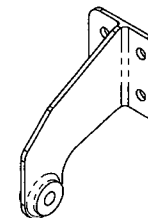
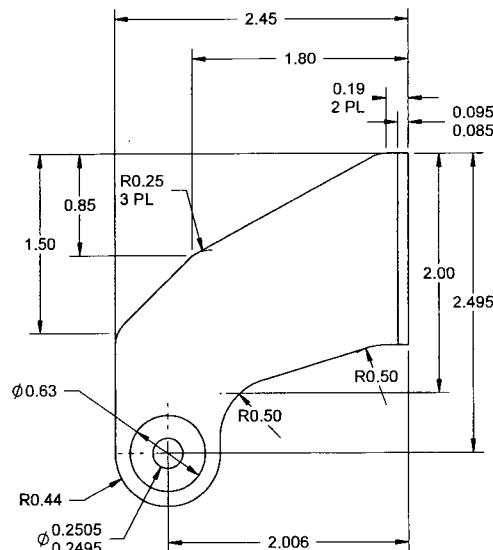
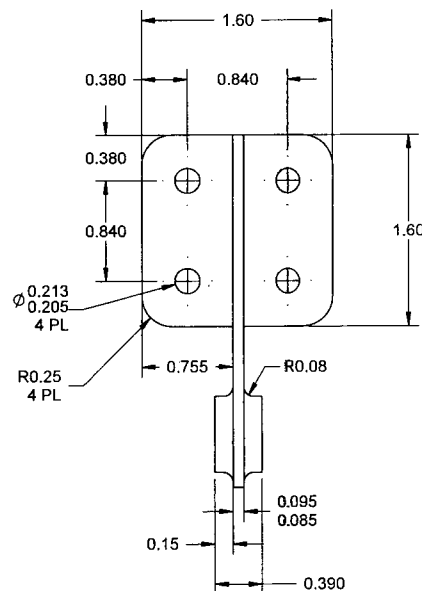
FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article
 ☒ Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
1.60	+/- .030	1.601	✓		Vlin	GA-01
0.840	+/- .010	0.840	✓		"	"
0.380	+/- .010	0.380	✓		"	"
0.380	+/- .010	0.380	✓		"	"
0.840	+/- .010	0.840	✓		"	"
φ0.205 - 0.213	min 0.205 / 0.213 max	φ0.207	✓		"	"
R0.25	+/- .030	R0.250	✓		R-6	ref.
0.755	+/- .010	0.755	✓		H-6	31006
0.090	+/- .005	0.090	✓		Vern	GA-01
0.15	+/- .030	0.150	✓		H-6	31006
0.390	+/- .010	0.390	✓		Vern	GA-01
R0.08	+/- .030	R0.060	✓		R-6	ref.
1.60	+/- .030	1.600	✓		Vern	GA-01
0.090	+/- .005	0.090	✓		"	"
0.19	+/- .030	0.190	✓		H-6	31006
1.80	+/- .030	1.800	✓		Vern	GA-01
2.45	+/- .030	2.447	✓		H-6	31006
R0.25	+/- .030	R0.250	✓		R-6	ref.
φ0.63	+/- .030	φ0.631	✓		Vern	GA-01
φ0.2495 - 0.2505	min 0.2495 / 0.2505 max	φ0.2505	✓		"	"
2.006	+/- .010	2.008	✓		H-6	31006
R0.50	+/- .030	R0.500	✓		R-6	ref.
2.495	+/- .010	2.497	✓		H-6	31006

Measured by: B.A	Audited by: SL	Prototype Approval:
Date: 11/03/21	Date: 11/03/21	Date:

Rev	Date	Change	Revised by	Approved
A		New Issue	KJ/JLM	



D4270-1 BRACKET

PRELIMINARY ISSUE

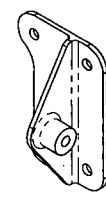
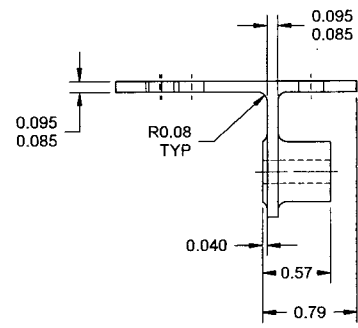
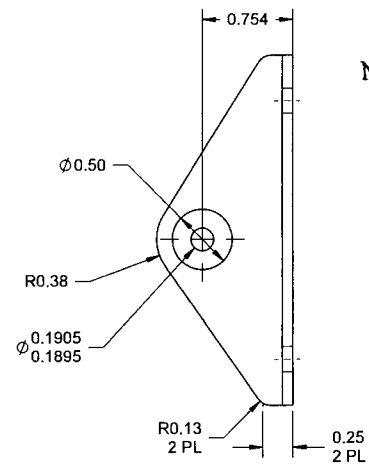
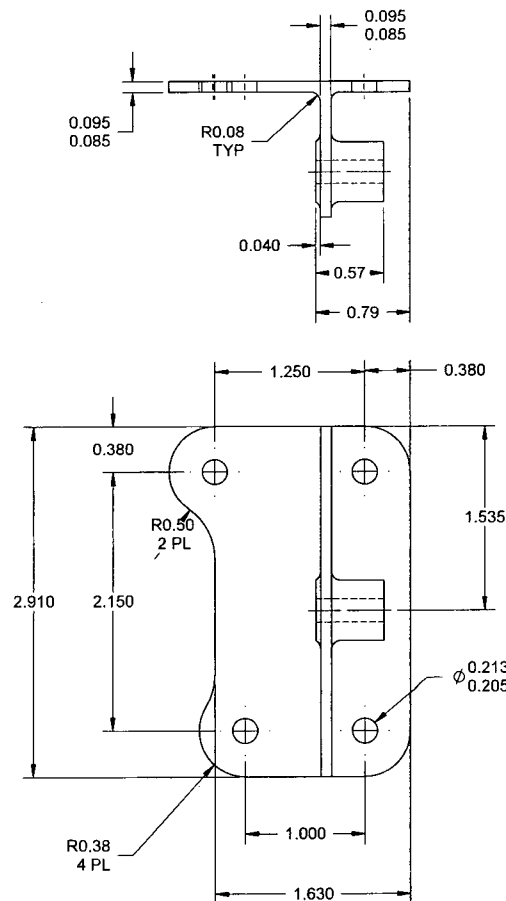
10.10.07

NOTES:

- 1) MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
PER QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221
REF DART SPEC M6061T6B
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.06 lbs

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 66207
CZ 11/02/07

PA1	NEW ISSUE		10.10.07
REV.		DESCRIPTION	BY DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. PA1
MFG. APPR.		D4270	SHEET 1 OF 2
APPROVED		TITLE	SCALE
DE APPR.		LVDT BRACKETS	NTS
DATE	10.10.07	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	



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UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 66207

D4270-3 BRACKET

PRELIMINARY ISSUE

10.10.07

- NOTES:
- 1) MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
PER QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221
REF DART SPEC M6061T6B
 - 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
 - 7) WEIGHT: 0.07 lbs

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. PA1
MFG. APPR.		D4270	SHEET 2 OF 2
APPROVED		TITLE	SCALE
DE APPR.		LVDT BRACKETS	NTS
DATE	10.10.07	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

Receiving Report

Date: 9/9/24
 Supplier: MAGNA

Batch No: M112764
 Part P/O: 10386

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒ N/A ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC6 Inspection ☒ N/A ☐
 Work Order 610269 N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: 9/9/24
 Date
 Received/Costing
 Initial

Location



Magna Stainless

5775 Kieran St, Saint-Laurent QC H4S 0A3
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

INVOICE

Pg 1 of 1 I017090

RECEIVED

OCT 05 2009

SOLD TO:

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY , ON
K6A 1K7

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY , ON
K6A 1K7

MTR:Y

INVOICE DATE:	09/24/09
ORDER DATE:	09/21/09
SHIP DATE:	09/24/09
ORDER NUMBER:	W018706
PURCHASE ORDER:	10386

Currency	Sales Person	Ship Via	F.O.B.	Terms
CANADIAN DOLLARS	ERYCK BLAIS	NIR:R-557065-1	PREPAID	NET 30 DAYS

Ln	Back Ordered	Ordered	Unit	Description	Shipped	Price Per	Value
		4	PC	STAINLESS FLATS SPL 304 HR 1/2" x 2-1/2" x R/L L031497 12'11" 4 PC/222 LB	4 UN	180.00	720.00

09/25/09 13:26:34

Merchandise:	720.00
Surcharges:	
No Tax Costs:	
GST	36.00
Total Due:	756.00

Title to the goods sent out on this invoice remains with Magna Stainless Div of CSMULC until such time as this invoice has been paid in full. Unless otherwise noted terms are 30 days. Interest accrues on all overdue accounts at the rate of 1.5% per month compounded monthly.

Q.S.T. # 1213236471
G.S.T. # 881565899 RT0001

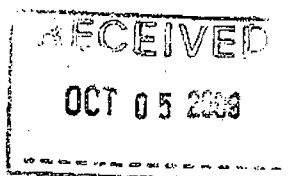


Magna Stainless

5775 Kieran St, Saint-Laurent QC H4S 0A3
Phone: (514) 339-1211 Watts: 1-800-383-6646 Fax: (514) 339-1105

INVOICE

Pg 1 of 1 I017098



SOLD TO:

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY , ON
K6A 1K7

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY , ON
K6A 1K7

MTR: Y

INVOICE DATE:	09/24/09
ORDER DATE:	09/14/09
SHIP DATE:	09/24/09
ORDER NUMBER:	W018319
PURCHASE ORDER:	PO10386

Currency	Sales Person	Ship Via	F.O.B.	Terms
CANADIAN DOLLARS	ERYCK BLAIS	NIR:R-557065-1	PREPAID	NET 30 DAYS

Ln	Back Ordered	Ordered	Unit	Description	Shipped	Price Per	Value
				ALUMINUM - LB			
1		PC		6061-T6 1/8" X 2 1/2" X 144"	1 UN	92.00	92.00
				L031466 1 PC/5 LB			
2		PC		6061-T6 1/2" X 10" X 144"	2 UN	220.00	440.00
				L031467 2 PC/146 LB			
2		PC		6061-T6 2" X 3 1/2" X 144"	2 UN	310.00	620.00
				L031468 2 PC/202 LB			

09/25/09 13:26:36

Merchandise:	1,152.00
Surcharges:	
No Tax Costs:	
GST	57.60
Total Due:	1,209.60

Title to the goods sent out on this invoice remains with Magna Stainless Div of CSM ULC until such time as this invoice has been paid in full. Unless otherwise noted terms are 30 days. Interest accrues on all overdue accounts at the rate of 1.5% per month compounded monthly.

Q.S.T. # 1213236471
G.S.T. # 881565899 RT0001

SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET

HAWKESBURY
K6A 1K7
Contact: CHANTASL

Currency	
CANADIAN DOLLARS	
Sales Order	
W018706	NET 30 DA

Ordered	Back Ordered
4	
Bundles: 1	

Received by: _____

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577

OUTSTANDING PO REPRINT

Purchase Order ID PO10386

Purchase Order Date 9/10/09

PO Print Date 9/24/09

Page Number 1 of 2

Order From :

VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	800 363 6646	Requisition Nbr	
Vendor Fax	514 339 1105	Tax Resale Nbr	10127-2607
Vendor Account Nbr		Terms	Net 30
		Currency	CAD
		FOB	

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty	Unit Price	Extended Price
----------	--	------------------------	----------------------	---------	------------	----------------

Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req. Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
5	M6061T6B0.125X2.500	6061T6 BAR .125 X 2.50	9/18/09 Yes	✓ 12.00 f	Yours ppd	\$7.6600	\$91.92

Special Inst:

MAT: 6061-T6/T651/T6510/T6511/T62
ALUMINUM BAR
SPEC: QC-A-225/8 OR AMS-QC-A-
225/8 OR AMS 4117/4128/4115/4116)

Line Total:

\$91.92

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577

OUTSTANDING PO REPRINT

Purchase Order ID PO10386

Purchase Order Date 9/10/09

PO Print Date 9/24/09

Page Number 2 of 2

Order From :

VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	800 363 6646	Requisition Nbr	
Vendor Fax	514 339 1105	Tax Resale Nbr	10127-2607
Vendor Account Nbr		Terms	Net 30
		Currency	CAD
		FOB	

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty	Unit Price	Extended Price
----------	--	------------------------	----------------------	---------	------------	----------------

Special Inst: SAME AS ABOVE

Line Total:

\$439.92

7	M6061T6B2.000X03.500	6061-T6 Bar 2.00 x 3.50	9/18/09 Yes	✓ 24.00	Yours ppd	\$25.8300	\$619.92
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Special Inst: SAME AS ABOVE

Line Total:

\$619.92

8	A1304B0.500X2.500	304 BAR .500 x 2.50	9/10/09 Yes	47.90	Yours ppd	\$15.0000	\$718.50
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Special Inst: MAT: AISI 304/316 STAINLESS
STEEL BAR (NOTE: AISI 303 NOT
APPLICABLE)

Line Total:

\$718.50

Outstanding PO Total:

\$1,870.26

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

REFERENCE ONLY

Change Nbr: 4

Change Date: 9/24/09

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

P006739-20206240

sapa: Sapa Industrial Extrusions
53 POTTSVILLE STREET

CRESSONA, PA
17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoiced To Customer

Ship To Customer

Certified Inspection Report

Sales Order Number	Line No.	Customer P/O	Cert Number	Page
1100072649	3	P906080001-3	SAPA89183	1 of 2
			Cert Creation Date	Cert Print Date
			16-JUL-09	16-JUL-09

Quantity Shipped	Date Shipped	Item Description
2242 LB	16-JUL-09	Extruded Rectangular Bar 0.125 THK x 2.5 W 144 IN LN
B/L	Item No.	6061 / T6511
59905	G03361057	FIN.M-MILL
Delivery ID	Item No. Rev	W/F 0.367 F 14 CS 2.5
4029113		Marking CONTINUOUS:
Customer Part No.		ASTM B221 REV 08
125X2.5		UNS#A96061 REV
		AMS-QQ-A-200/6 REV

Applicable Specifications, Revisions and Exceptions

Certificate in accordance with EN10204 3.1

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Legal Statement

We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature And Title

Dave A. Lukaszak

Dave A. Lukaszak
Tech/Quality Manager

16-JUL-09

Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight
G12-PKG1084499	20206240	258	PCS	Gross Net
G12-PKG1084500	20206240	258	PCS	1129 1121

Compositional Limits

Alloy	Si		Fe		Cu		Mn		Mg		Cr		Zn	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	0.40	0.8	—	0.7	0.15	0.40	—	0.15	0.8	1.2	0.04	0.35	—	0.25

Inc 09-21-09

S002140601-1 ALUMINA STAINLESS PO: P006739 Page 2:

1.00PC

S
07/09/09

sapa: Sapa Industrial Extrusions
53 POTTSVILLE STREET
CRESSONA, PA
17929-0187

Certified Inspection Report

Sales Order Number 1100072649
Line No. 3
Customer P/O P90608CC021-3

Cert Number	Page
SAPA891E3	Page 2 of 2
Cert Creation Date	Cert Print Date
16-JUL-09	16-JUL-09

Alloy	Ti		Bt		Pb		Others Each		Others Total	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	---	0.15	---	---	---	---	---	0.05	---	0.15

Composition Results

Item / Cast	Si	Pb	Co	Mn	Mg	Cr	Zn	Ti	Bi	Pb	Others Each	Others Total
5021323	0.7	0.24	0.28	0.04	0.9	0.06	0.04	0.01	---	---	---	---

Mechanical Property - Test Limits

Test Type			UTS - L		TYS - L		EL 4D-Long	
UOM			KSI		KSI		PCT	
# of Test			---		---		---	
Test Technique	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T6511	20704240	3	45.3	44.8	39.8	41.2	12.2	12.7

Cert Notes

Products manufactured with a T6511 temper also meet T6 temper requirements.

Yield strength has been determined by the 0.2% offset method

All Alloys Produced at Sapa Industrial Extrusions comply with 0.4% Maximum Lead per RoHS, with the exception of 6262 alloy
Made in USA

JUL 17 2009

BY *Kathy Bell*

KATHY BELL, CERTIFICATION PROCESSOR

Inc 09-21-09

S90914G001-1 MAGNA STAINLESS PO: PC06739 Part #: 1.00PC

PO06734-200909862



SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

DIR. ORDER NUMBER	ITEM
909652	27

BILL TO

MANIFEST NUMBER

DIE NUMBER

DATE OF SHIPMENT

CERTIFICATION

SHIP TO

CUSTOMER PO

ALLOY / TEMPER

SALESPERSON

SPECIFICATION

P90716CG001 CT

6061-T6511

David Schroeder

AMS-QQA-200/8

CUSTOMER PART NUMBER

DESCRIPTION

MRB0481

MQRB 2.000x3.500 /

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

Mechanical Properties

Lot No.	Test No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
200909862	1	08/11/09	54.3	48.0	19.5

S
08/10/09

BY *meissa gagner*
MEISSA GAGNER CERTIFICATION PROCESSOR

Chemical Composition for Alloy 6061

Alloy		Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other	Each	Total	Al	Melted In
6061	Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15		Remainder	
	Min	0.40	-	0.15	-	0.8	0.04	-	-	-	-			

United States of America

Rev. 9/05/07 - UMS

Print Date: 8/13/2009

Robert M. Ramage
Robert M. Ramage Ph.D., Director of Quality & Technical Services

Inc 09-21-09

39091406001-3 MAGNA STAINLESS PO: PO06739 Part #:

2.00PC 202.00LB

PO06739-2045992

sapa:

Sapa Industrial Extrusions
53 POTTSVILLE STREET

CRESSONA, PA
17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer

Ship To Customer

Certified Inspection Report

Sales Order Number 1100096128		Line No. 2	Customer P/O P90810CG002-2	Cert Number SAPA102563	Page 1 of 3
Quantity Shipped 4930		Unit Shipped LB	Date Shipped 12-AUG-09	Cert Creation Date 12-AUG-09	Cert Print Date 12-AUG-09
Item No. 67087		Item No. G03360668		Item Description Extruded ECON-O-PLATE 0.500 TH x 10.000 W SECT 505025 144.000 IN LN 6061 / T6511 FIN M-MILL	
Delivery Id 4037119		Item No. Rev		W/F 5.860 F 04 CS 10 Marking CONTINUOUS: ASTMB221 REV 08 AMS-QQ-A-200/8 REV ASMESB221 REV 99 UNSHA46061 REV	
Customer Part No. 5X10					

Applicable Specifications, Revisions and Exceptions

Certify in accordance with EN 10204 3.1

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Legal Statement

We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature And Title

David A. Lukaszak

David A. Lukaszak

Tech/Quality Manager

12-AUG-09

Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight	
				Gross	Net
G12-PKG1087367	20245992	14	PCS	990	990
G12-PKG1095929	20245992	14	PCS	991	985
G12-PKG1095929	20245992	14	PCS	991	985
G12-PKG1095930	20245992	14	PCS	991	985
G12-PKG1095941	20245992	14	PCS	991	985
G12-PKG1095941	20245992	14	PCS	991	985
G12-PKG1095948	20245992	14	PCS	991	985
G12-PKG1095948	20245992	14	PCS	991	985

807/09/05

[Handwritten mark]

INC 09-21-09

S20014D5001-2 MIGNA STAINLESS PO: P006739 Part 8:
2.002C 146.001A

sapa:Sapa Industrial Extrusions
53 POTTSVILLE STREETCRESSONA, PA
17929-0187**Certified Inspection Report**

Sales Order Number

1100096128

Line No.

2

Customer PO

P90810CG002-2

Cert Number

SAPA102563

Cert Creation Date

12-AUG-09

Page

Page 2 of 3

Cert Print Date

12-AUG-09

Composition Limits

Alloy	Si		Fe		Cu		Mn		Mg		Cr		Zn	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	0.40	0.8	---	0.7	0.15	0.40	---	0.15	0.8	1.2	0.04	0.35	---	0.25
Alloy	Ti		B		Pb		Others Each		Others Total					
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max				
6061	---	0.15	---	---	---	---	---	0.05	---	0.15				

Composition Results

Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	B	Pb	Others Each	Others Total
5021479	0.7	0.30	0.29	0.04	0.9	0.04	0.06	0.02	---	---	---	---
Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	B	Pb	Others Each	Others Total
5021598	0.6	0.27	0.25	0.03	0.9	0.05	0.06	0.02	---	---	---	---

Mechanical Property - Test Limits

Test Type			UTS - L		TYS - L		EL 4D-Long	
UOM			KSI		KSI		PCT	
# of Test			---		---		---	
Test Temper	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T6511	20231651	2	44.4	45.5	39.9	42.4	18.8	20.1
Test Type			UTS - L		TYS - L		EL 4D-Long	
UOM			KSI		KSI		PCT	
# of Test			---		---		---	
Test Temper	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T6511	20245992	2	44.5	46.6	40.5	42.5	18.9	20.2

Cert Notes

Products manufactured with a T6511 temper also meet T6 temper requirements.

Yield strength has been determined by the 0.2% offset method

Inc 09-21-09

S90914DG001-2 MAGNA STAINLESS PO: P006739 Part #:

2.00PC 146.00LB

8/09/09/05

Sapa: Sapa Industrial Extrusions
53 POTTSVILLE STREET

CRESSONA, PA
17929-0137

Certified Inspection Report

Sales Order Number

1100096128

Line No.

2

Customer P/O

P90810CC002-2

Cert Number

SAPA102563

Cert Creation Date

12-AUG-09

Page

Page 3 of 3

Cert Print Date

12-AUG-09

All Alloys Produced at Sapa Industrial Extrusions comply with 0.4% Maximum Lead per RoHS, with the exception of 6262 alloy
Made in USA.

AUG 13 2009

BY *Melissa Gagner*
MELISSA GAGNER CERTIFICATION PROCESSOR

Inc 09-21-09

S90314DG001-2 MIGNA STAINLESS PO: P006739 Part #: 2.00PC 146.00LB

Pagina - 1 di 1



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO10386

Purchase Order Date 9/10/09

PO Print Date 9/10/09

Page Number 2 of 3

Order From :

VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

Contact Name

Vendor Phone 800 363 6646

Vendor Fax 514 339 1105

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms

Net 30

Currency

CAD

FOB

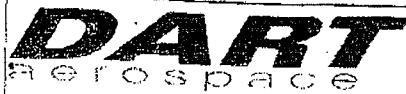
4	M6061T6R1.125	6061 ROUND BAR 1.125	9/10/09 Yes	New 20" 12.00 f Yours ppd 10/9/09	\$4,1600	\$49.92
		Special Inst:	SAME AS ABOVE			
5	M6061T6B0.125X2.500	6061T6 BAR .125 X 2.50	9/18/09 Yes	✓ 12.00 f Yours ppd 10/9/09	\$7,6600	\$91.92
		Special Inst:	MAT: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR SPEC: QC-A-225/8 OR AMS-QC-A-225/8 (OR AMS 4117/4128/4115/4116) OR QC-A- 200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221			
6	M6061T6B0.500X01.000	6061-T6 Bar .500 x 1.00	9/18/09 Yes	24.00 f Yours ppd	\$18,3300	\$439.92
		Special Inst:	SAME AS ABOVE			
7	M6061T6B2.000X03.500	6061-T6 Bar 2.00 x 3.50	9/18/09 Yes	✓ 24.00 f Yours ppd 10/9/09	\$25,8300	\$619.92
		Special Inst:	SAME AS ABOVE			
8	M304B0.500X2.500	304 BAR .500 x 2.50	9/10/09 Yes	New 12.00 60.00 f Yours ppd 10/9/09 9844/10/9/09	\$15,0000	\$900.00
		Special Inst:	MAT: AISI 304/316 STAINLESS STEEL BAR (NOTE: AISI 303 NOT APPLICABLE)			

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

Change Nbr: 3

Change Date: 9/10/09



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO10386

Purchase Order Date 9/10/09

PO Print Date 9/10/09

Page Number 3 of 3

Order From :

VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

Contact Name

Vendor Phone 800 363 6646

Vendor Fax 514 339 1105

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms

Net 30

Currency

CAD

FOB

9	M304B0.750X2.500	304 BAR .750 X 2.50	9/10/09 Yes	48.00	Yours ppd	\$27.9200	\$1,340.16
Special Inst: SAME AS ABOVE							
10	M304S11GA	304/316 0.125 Sheet	9/10/09 Yes	✓ 128.00 sf	Yours ppd	\$10.4700	\$1,340.16

Special Inst: MAT: AISI 304/316 SS SHEET
ANNEALED 28 FINISH
SPEC: MIL-S-5059 OR AMS 5513(304) OR
AMS 5524 (316) OR ASTM A240 OR
ASME SA240

PO Total: \$5,328.46

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

Change Nbr: 3

Change Date: 9/10/09

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable



Magna Stainless
 5775 Kieran St, Saint-Laurent, Quebec H4S 0A3
 Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

PACKING LIST

REPRINT

I017098

Page: 1 of 1

SOLD TO:
 DART AEROSPACE LTD
 1270 ABERDEEN STREET


SHIP TO:
 DART AEROSPACE LTD
 1270 ABERDEEN STREET

HAWKESBURY, ON
 K6A 1K7
 Contact: CHANTAL

HAWKESBURY, ON
 K6A 1K7
 Ship Terms: PREPAID

MTR:Y

SPECIAL INSTRUCTIONS

Currency	Sales Person	Customer Phone	Customer Fax	Customer PO	
CANADIAN DOLLARS	ERYCK BLAIS	(613) 632-5200	(613) 632-1053	PO10386	
Sales Order	Terms	Ship Via	Date Ordered	Date Required	Date Shipped
W018319	NET 30 DAYS 	NIR:R-557065-1	09/14/09	09/21/09	09/24/09

Ordered	Back Ordered	Unit	Description	Bundle #	Heat #	Shipped
1		PC	ALUMINUM - LB 6061-T6 1/8" X 2 1/2" X 144"			1
2		PC	5 LB / 1 PC 6061-T6 1/2" X 10" X 144"	I031466	20206240	1
2		PC	146 LB / 2 PC 6061-T6 2" X 3 1/2" X 144"	I031467	20245992	2
			202 LB / 2 PC	I031468	200909862	2
Bundles: 1				Total Weight:		353 LB

Received by:

Date:

24/09/09

Signature: